

FIG. 2

The Original Program

```

main()
{
  ...
  // traverse first list
  list_1 = head_1;
  while (list_1){
    list_1 = list_1->next;
  }
  ...
  // traverse second list
  list_2 = head_2;
  while (list_2){
    list_2 = list_2->next;
  }
}
  
```

Handwritten annotations: 202 (pointing to the title), 204 (pointing to the first while loop), 206 (pointing to the second while loop).

The Program with Pre-Execution

```

main()
{
  ...
  PreExecute_Start(LIST2);
  // traverse first list
  list_1 = head_1;
  while (list_1){
    list_1 = list_1->next;
  }
  ...
  LIST2: // a label
  // traverse second list
  list_2 = head_2;
  while (list_2){
    list_2 = list_2->next;
  }
  PreExecute_Stop();
}
  
```

Handwritten annotations: 220 (pointing to the title), 222 (pointing to the first ellipsis), 224 (pointing to PreExecute_Start and the second ellipsis), 204 (pointing to the first while loop), 206 (pointing to the second while loop), 226 (pointing to PreExecute_Stop). A dotted arrow points from the first while loop of the original program to the LIST2 label in this program.

FIG. 3

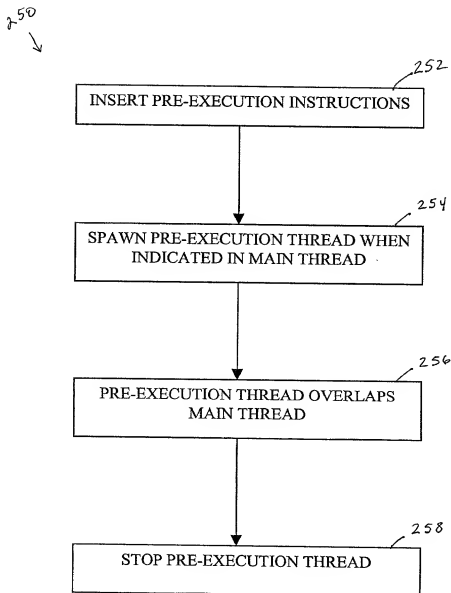


FIG. 4